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AWS Certified DevOps Engineer - Professional

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**QUESTION 1**

A company is storing 100 GB of log data in csv format in an Amazon S3 bucket SQL developers want to query this data and generate graphs to visualize it. The SQL developers also need an efficient automated way to store metadata from the csv file.

Which combination of steps will meet these requirements with the LEAST amount of effort? (Select THREE.)

- A. Fitter the data through AWS X-Ray to visualize the data.
- B. Filter the data through Amazon QuickSight to visualize the data.
- C. Query the data with Amazon Athena.
- D. Query the data with Amazon Redshift.
- E. Use the AWS Glue Data Catalog as the persistent metadata store.
- F. Use Amazon DynamoDB as the persistent metadata store.

Correct Answer: BCE

<https://docs.aws.amazon.com/glue/latest/dg/components-overview.html>

QUESTION 2

If Ansible encounters a resource that does not meet the requirements specified in the play it makes the necessary changes to the resource; however if the resource is already in the desired state Ansible will do nothing. This is an example of which methodology?

- A. Idempotency
- B. Immutability
- C. Convergence
- D. Infrastructure as Code

Correct Answer: A

Idempotency states that changes are only made if a resource does not meet the requirement specifications. If a change is made, it is made 'in-place' and will not break existing resources.

Reference: <http://docs.ansible.com/ansible/glossary.html>

QUESTION 3

Some of your EC2 instances are configured to use a Proxy. Can you use Amazon Inspector for regular assessment of instances behind proxy?

- A. Only Windows-based systems are supported as Linux-based systems use custom configurations that are not



supported by AWS Agent in the current release.

B. Only Linux-based systems are supported, and AWS agent supports HTTPS proxy on these systems.

C. No, AWS Agent does NOT support proxy environments.

D. Yes, AWS Agent supports proxy environments on both Linux-based and Windows-based systems.

Correct Answer: D

The AWS agent supports proxy environments. For Linux instances, Inspector supports HTTPS Proxy, and for Windows instances, it supports WinHTTP proxy.

Reference: https://docs.aws.amazon.com/inspector/latest/userguide/inspector_agents.html

QUESTION 4

A company uses AWS Storage Gateway in file gateway mode in front of an Amazon S3 bucket that is used by multiple resources. In the morning when business begins, users do not see the objects processed by a third party the previous evening. When a DevOps engineer looks directly at the S3 bucket, the data is there, but it is missing in Storage Gateway.

Which solution ensures that all the updated third-party files are available in the morning?

A. Configure a nightly Amazon EventBridge event to invoke an AWS Lambda function to run the RefreshCache command for Storage Gateway.

B. Instruct the third party to put data into the S3 bucket using AWS Transfer for SFTP.

C. Modify Storage Gateway to run in volume gateway mode.

D. Use S3 Same-Region Replication to replicate any changes made directly in the S3 bucket to Storage Gateway.

Correct Answer: A

https://docs.aws.amazon.com/storagegateway/latest/APIReference/API_RefreshCache.html

" It only updates the cached inventory to reflect changes in the inventory of the objects in the S3 bucket. This operation is only supported in the S3 File Gateway types."

QUESTION 5

A DevOps engineer needs to grant several external contractors access to a legacy application that runs on an Amazon Linux Amazon EC2 instance. The application server is available only in a private subnet. The contractors are not authorized for VPN access.

What should the DevOps engineer do to grant the contractors access to the application server?

A. Create an IAM user and SSH keys for each contractor. Add the public SSH key to the application server's SSH authorized_keys file. Instruct the contractors to install the AWS CLI and AWS Systems Manager Session Manager plugin, update their AWS credentials files with their private keys, and use the aws ssm start-session command to gain access to the target application server instance ID.



B. Ask each contractor to securely send their SSH public key. Add this public key to the application server's SSH authorized-keys file. Instruct the contractors to use their private key to connect to the application server through SSH.

C. Ask each contractor to securely send their SSH public key. Use EC2 pairs to import their key. Update the application server's SSH authorized_keys file. Instruct the contractors to use their private key to connect to the application server through SSH.

D. Create an IAM user for each contractor with programmatic access. Add each user to an IAM group that has a policy that allows the ssm:StartSession action. Instruct the contractors to install the AWS CLI and AWS Systems Manager Session Manager plugin, update their AWS credentials files with their access keys, and use the aws ssm start-session to gain access to the target application server instance ID.

Correct Answer: B

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